

**Prüfbericht - Nr.: 21128415 002**

Seite 1 von 45

Test Report No.:

Page 1 of 45

**Auftraggeber:** Weldas Europe B.V.  
**Client:** De Poort 77, 4411 PB Rilland, Netherland

**Gegenstand der Prüfung:** Protective gloves for welders  
**Test item:**

**Bezeichnung:** siehe Sonstiges  
**Identification:** see other aspects  
**Serien-Nr.:** 1027544  
**Serial No.:**

**Wareneingangs-Nr.:** 744-700380/01  
**Receipt No.:**  
**Eingangsdatum:** 15.02.2007  
**Date of receipt:**

**Prüfört:** TRPS / Prüfstelle für Produktsicherheit Leipzig  
**Testing location:** Maximilianallee 4, 04129 Leipzig, Fon/Fax: +49 341 600 369-0 / -10

**Prüfgrundlage:** DIN EN 12477/09.2005, DIN EN 420/2003  
**Test specification:**

**Prüfergebnis:** Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).  
**Test Result:** The test item passed the test specification(s).

**Prüflaboratorium:** TRPS / Prüfstelle für Produktsicherheit Leipzig  
**Testing Laboratory:**

**geprüft/ tested by:**

**kontrolliert/ reviewed by:**

11.04.2007 Albrecht/Expert



11.04.2007

Knape/General Manager Leipzig



Datum	Name/Stellung	Unterschrift
Date	Name/Position	Signature
11.04.2007	Albrecht/Expert	

Datum	Name/Stellung	Unterschrift
Date	Name/Position	Signature
11.04.2007	Knape/General Manager Leipzig	

**Sonstiges/ Other Aspects:**

Art.	Typ	Performance levels:	mechanical	thermal
Art. 10-2000	Typ A		4133	413X3X
Art. 10-2900	Typ A		4233	423X4X
Art. 10-2385	Typ A		4133	41344X
Art. 10-2850	Typ A/B		3133	313X4X
Art. 10-2750	Typ A/B		4143	423X4X
Art. 10-2087	Typ A/B		4133	413X3X
Art. 10-2178	Typ A		4133	413X3X
Art. 10-2392	Typ A/B		3124	413X4X
Art. 10-2101	Typ A/B		3134	413X4X
Art. 10-1003	Typ A/B		3121	413X4X
Art. 10-1005	Typ A/B		2122	412X4X
Art. 10-1007	Typ B		2111	412X4X
Art. 10-1009	Typ B		2111	412X4X
Art. 10-2304	Typ A/B		2133	413X4X

**Abkürzungen:** P(ass) = entspricht Prüfgrundlage  
F(all) = entspricht nicht Prüfgrundlage  
N/A = nicht anwendbar  
N/T = nicht getestet

**Abbreviations:** P(ass) = passed  
F(all) = failed  
N/A = not applicable  
N/T = not tested

**Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.**

*This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

**Prüfbericht - Nr.:** 21128415 002  
*Test Report No.:* 744-700380/01

Seite 2 von 45  
 Page 2 of 45

## Used measuring instruments

Measuring	Device-Number Inventory-Number Serial-Number	next Calibration
Chromium VI content, Azo dye stuff		accredited test laboratory
Sizing	744 00 161	05/2008
Dexterity	744 00 197	05/2008

Test results of accredited laboratories of competent subcontractor are marked with /\*.

already certified articles:

10-2000                      Test report M 9811321 E01, 744-800242, dtd. 22.05.1998,  
 10-2087  
 10-2178

10-2900                      Test report M 9910845 E01, 744-900170, dtd. 07.04.1999  
 10-2392

10-2385                      Test report M 9910393 E01, 744-800515, dtd. 04.03.1999  
 10-2850  
 10-2750  
 10-2101  
 10-1003  
 10-1005  
 10-1007  
 10-1009  
 10-2304

**Prüfbericht - Nr.: 21128415 002**  
 Test Report No.: 744-700380/01

Seite 27 von 45  
 Page 27 of 45

### Art. 10-2101 Economy model

material:

palm cow split shoulder leather brown  
 back cow split shoulder leather  
 lining nature cotton  
 cuff split leather brown



Parameter	according EN 12477	Requirement	Test result	Remark																	
				P	F	N/A	N/T														
<b>Glove design and construction</b> General	clause 3 EN 420, 4.1	- in foreseeable conditions of use, protection at highest possible level - minimal time for put on/take off - overall not significantly decreased by seams	given				P														
<b>Resistance to water penetration</b>	clause 3 EN 420, 4.2	if required, leather: <table border="1" style="display: inline-table; vertical-align: middle;"><thead><tr><th>level</th><th>penetration time [min]</th></tr></thead><tbody><tr><td>1</td><td>30</td></tr><tr><td>2</td><td>60</td></tr><tr><td>3</td><td>120</td></tr><tr><td>4</td><td>180</td></tr></tbody></table> textil:	level	penetration time [min]	1	30	2	60	3	120	4	180	-				N/A				
level	penetration time [min]																				
1	30																				
2	60																				
3	120																				
4	180																				
<b>Innocuousness of protective gloves</b> General	clause 3 EN 420, 4.3.1	- protection at use without harm to user - all substances contained which are known to cause allergies are named	given				P														
<b>Determination of pH-value</b>	clause 3 EN 420, 4.3.2	>3,5 and < 9,5	given (see M 9910393 E01)				P														
<b>Determination of chromium (VI) content</b> Azo dye stuff	clause 3 EN 420, 4.3.3	under detection limit 3 mg/kg  under detection limit 30 mg/kg	/* AZ 24740 split leather redbr. < 3 mg/kg split leather redbr. < 30 mg/kg				P														
<b>Determination of extractable protein content</b>	clause 3 EN 420, 4.3.4	natural rubber: Lowry- test method: under detection limit	-				N/A														
<b>Cleaning</b>	clause 3 EN 420, 4.4	no negative influence of performance levels after cleaning	-				N/A														
<b>Comfort and efficiency</b> Sizing	clause 3 EN 420, 5.1.2	<table border="1" style="display: inline-table; vertical-align: middle;"><thead><tr><th>Hand size</th><th>minimum length [mm]</th></tr></thead><tbody><tr><td>6</td><td>300</td></tr><tr><td>7</td><td>310</td></tr><tr><td>8</td><td>320</td></tr><tr><td>9</td><td>330</td></tr><tr><td>10</td><td>340</td></tr><tr><td>11</td><td>350</td></tr></tbody></table>	Hand size	minimum length [mm]	6	300	7	310	8	320	9	330	10	340	11	350	Size      Length [mm] L/9        340 XL/10     340				P
Hand size	minimum length [mm]																				
6	300																				
7	310																				
8	320																				
9	330																				
10	340																				
11	350																				
Special applications	clause 5.1.3	- fit for special purpose (clearly stated in instruction for use) - type of protective gloves - after each test, the inside material have to be checked of damage	type A and B given				P														

**Prüfbericht - Nr.:** 21128415 002  
**Test Report No.:** 744-700380/01

Seite 28 von 45  
 Page 28 of 45

### Art. 10-2101 Economy model

Parameter	according EN 12477	Requirement	Test result	Remark			
				P	F	N/A	N/T
Water vapour transmission Water vapour absorption	EN 420, clause 5.3	if practicable, water vapour transmission allowed if required, leather: WVT: $\geq 5$ mg/ (cm <sup>2</sup> ·h). if protection level inhibits or excludes water vapour transmission, effect of perspiration is reduced if required, leather: WVA: $\geq 8$ mg/cm <sup>2</sup> for 8 h	given				P
<b>Abrasion resistance</b>	clause 5.1	type A at least level 2 type B at least level 1  performance level      abrasion (cycles) 1                              100 2                              500 3                              2000 4                              8000	/* 21128415 001 breakthrough at about [cycles] Leather                      2000-8000 Lining                        < 100  lowest value for classification: > 2000				P  perf. level 3
<b>Blade cut resistance</b>	clause 5.2	type A at least level 1 type B at least level 1  performance level      blade cut resist. (index) 1                              1,2 2                              2,5 3                              5,0 4                              10,0 5                              20,0	/* 21128415 001 index i:                      2,5 2,4 2,5 2,3 2,1 index I:                      2,4  lowest Index I for classification: 2,4				P  perf. level 1
<b>Tear resistance</b>	clause 5.3	type A at least level 2 type B at least level 1  performance level      Tear [N] 1                              10 2                              25 3                              50 4                              75	/* 21128415 001 several values Leather    68                      134 Lining    17                      18  lowest value for classification: 68				P  perf. level 3
<b>Puncture resistance</b>	clause 5.4	type A at least level 2 type B at least level 1  performance level      puncture [N] 1                              20 2                              60 3                              100 4                              150	/* 21128415 001 several values 178                      204  lowest value for classification: 178				P  perf. level 4

**Prüfbericht - Nr.:** 21128415 002  
**Test Report No.:** 744-700380/01

Seite 29 von 45  
 Page 29 of 45


### Art. 10-2101 Economy model

Parameter	according EN 12477	Requirement	Test result	Remark			
				P	F	N/A	N/T
<b>Burning behaviour</b>	clause 5.5	type A at least level 2 type B at least level 1	/* 21128415 001 after flame time 0 s after glow time 3 s  no seams opening no melted dropping no melting at inner layer no whole formation	P			
		Performance after flame time [s] after glow time [s]  1 < 20 no requirements 2 < 10 < 120 3 < 3 < 25 4 < 2 < 5 The seams at heated area do not open after burning time of 15 s.					
<b>Contact Heat</b>	clause 5.6	type A at least level 1 type B at least level 1	/* 21128415 001 glove palm  at 100 °C 34 s at 250 °C 14 s	P			
		performance- contact temp. threshold level  T <sub>c</sub> [°C] t <sub>t</sub> [s] 1 100 ≥ 15 2 250 ≥ 15 3 350 ≥ 15 4 500 ≥ 15					
<b>Convective Heat</b>	clause 5.7	type A at least level 2 type B at least level 0	/* 21128415 001 glove palm 16 s glove back 16 s cuff 15 s	P			
		Performance level Heat transfer index HTI  1 ≥ 4 2 ≥ 7 3 ≥ 10 4 ≥ 18					
<b>Impact of molten metal drops</b>	clause. 5.8	type A at least level 3 type B at least level 2	> 40 (see M 9910393 E01)	P			
		performance level number of drops 1 ≥ 10 2 ≥ 15 3 ≥ 25 4 ≥ 35					
<b>Dexterity</b>	clause 5.9	type A at least level 1 type B at least level 4	pin:6,5 mm	P			
		Performance smallest diameter of level pin 1 11 2 9,5 3 8 4 6,5 5 5					
<b>Optional Electrostatic properties (vertical resistance)</b>	clause 3.4 and EN 1149-2	vertical resistance between inner and outer side > 10 <sup>5</sup> Ω	-				N/T

**Prüfbericht - Nr.:** 21128415 002  
*Test Report No.:* 744-700380/01

Seite 45 von 45  
 Page 45 of 45

### Marking and Information according to EN 420/EN 12477 of gloves

Parameter	according EN 12477	Requirement	Test result	Remark			
				P	F	N/A	N/T
<b>Marking</b>	clause 6	<ul style="list-style-type: none"> <li>- name, trade mark or other means of identification of the manufacturer</li> <li>- article identification</li> <li>- size</li> <li>- if required, best use before</li> <li>- EN 12477:2003</li> <li>- figures:</li> </ul> Protective gloves for welders: 	given				P
<b>Information of the manufacturer</b>	clause 7	<ul style="list-style-type: none"> <li>- name, trade mark or other means of identification of the manufacturer</li> <li>- glove type , name or code for identification</li> <li>- size</li> <li>- if the expected shelf-life of the gloves is reduced by aging, the expiration date have to be added</li> <li>- the pictograms</li> <li>- if protection is only given, for part of gloves, information have to be added</li> <li>- possible problems</li> <li>- instruction for use for gloves and also for use with combination of other PPE</li> <li>- care label</li> <li>- information about penetration of UV-radiation and behaviour at arc welding</li> <li>- testing institute</li> </ul>	given  given  given not applicable   given given   given given  given given  given				P